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APPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/833,667	04/13/2001		Manjari Kuntimaddi	174-885	1721
23517	7590	10/12/2006		EXAMINER	
BINGHAM 3000 K STR		TCHEN LLP	HUNTER, ALVIN A		
BOX IP	LLLI, IN W		ART UNIT	PAPER NUMBER	
WASHING	ron, dc	20007	3711		

DATE MAILED: 10/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commence	09/833,667	KUNTIMADDI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Alvin A. Hunter	3711					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 27 Fe	Responsive to communication(s) filed on 27 February 2006.						
	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the mer							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	parto dadylo, 1000 0127 117, 10						
Disposition of Claims							
 4) ☐ Claim(s) 1-4,8-28,30-32 and 39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,8-27,30,31,39 and 40 is/are rejected. 7) ☐ Claim(s) 28,32 and 41 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examiner	·.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	e see e e e e e e e e e e e e e e e e e	· · · · · · · · · · · · · · · · · · ·					
<u> </u>	milaith	(4) (5)					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te					
Patent and Trademark Office							

Art Unit: 3711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimosaka (USPN 5816937) in view of Lucas (USPN 5866258).

Regarding claim 1, Shimosaka discloses a golf ball having a core and a cover and at least a layer between the cover and core wherein a layer covering the core is formed of polyurethane. Shimosaka does not disclose the polyurethane being a IPN. Lucas discloses a interpenetrating polymer network formed of polyurethane. One having ordinary skill in the art would have found it obvious to have a layer covering the cover made of an polyurethane IPN, as taught by Lucas, in order to improve strength.

Regarding claim 2, Shimosaka discloses an intermediate layer.

Regarding claim 4, see the above regarding claim 1.

Regarding claim 18, Shimoska discloses the core being fluid filled (See Figure 3).

Regarding claim 19, Shimosaka also notes that a would layer may surround the center.

Claims 1-4, 8-17, 21, 22, 24-27, 30, 31, 39, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kennedy, III et al. (USPN 6290614) in view of Frisch et al. (USPN 4742128).

Art Unit: 3711

Regarding claim 1, Kennedy, III et al. discloses a golf ball having a core and a cover and at least a layer between the cover and core wherein a layer covering the core is formed of RIM polyurethane. Kennedy, III et al. does not disclose the polyurethane being a IPN. Lucas discloses an interpenetrating polymer network formed of RIM polyurethane. One having ordinary skill in the art would have found it obvious to have a layer covering the cover made of an polyurethane IPN, as taught by Kennedy, III et al., in order to improve strength.

Regarding claim 2, Kennedy, III et al. notes that the core, intermediate layer, or cover can be made of a RIM polyurethane. In combination with Frisch et al., one having ordinary skill in the art would find it obvious to have any of these layers to be made of a IPN in order to improve strength.

Regarding claim 3, Kennedy, III et al. discloses the cover having a hardness greater than 15 Shore A and the golf ball having a COR greater than 0.7 see (examples).

Regarding claim 4, see the above regarding claim 1.

Regarding claim 8, see the above regarding claim 1. Further, Frisch et al. notes that the RIM polyurethane composition may be a semi-IPN.

Regarding claim 9, Kennedy, III et al. notes that the core, intermediate layer, or cover can be made of a RIM polyurethane. In combination with Frisch et al., one having ordinary skill in the art would find it obvious to have any of these layers to be made of a semi-IPN in order to improve strength.

Art Unit: 3711

Regarding claims 10-17, see the above regarding claim 1. Further, the additional limitations regarding the glass transition temperature, phase size, and melting exotherm are presumed to naturally flow from the prior art being that the office does not have the ability to compare these limitations through testing.

Regarding claim 21, Kennedy, III et al. discloses the cover having an inner and outer cover (See Figure 3).

Regarding claim 22, see the above regarding claim 1. Further, it is submitted that that shear category is at least one less than that of which is free of an IPN being that the composition has improved strength.

Regarding claims 24 and 27, see the above regarding claim 1.

Regarding claim 25 and 26, see the above regarding claim 2.

Regarding claim 30, 31, 39, and 40, see the above regarding claims 1 and 2.

Allowable Subject Matter

Claims 28, 32, and 41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Frisch et al. teach the polyurethane IPN using a trimer copolymer and not a uretdione copolymer.

Response to Arguments

Applicant's arguments with respect to claims 1-4, 8-28, 30-32, and 39-41 have been considered but are most in view of the new ground(s) of rejection.

Art Unit: 3711

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin A. Hunter whose telephone number is (571) 272-4411. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Kim, can be reached on 571-272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAR

Alvin A. Hunter, Jr.

EUGENE KIM SUPERVISORY PATENT EXAMINER